

# HIGH PRESSURE TURBINE ROTOR

## *LIFE LIMITS*

### Applicability

Engine type(s): LEAP-1A  
 Engine model(s): ALL

### Reason for update(s)

[TECHNICAL] Added PNs 2466M52G04 and 2466M68P03 to the life limits tables.

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## 1. REFERENCES

*Table: References*

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### Technical Publication

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LEAP-1A-05-11-00-01A-040A-C

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## 2. REQUIRED CONDITIONS

*No Required conditions*

## 3. SUPPORT EQUIPMENT

*No support equipment*

## 4. CONSUMABLES, MATERIALS AND EXPENDABLES

*No supplies*

## 5. SPARES

*No Spares*

### ***Safety conditions***

*No safety conditions*

## 6. PROCEDURE

### **A. General**

This section contains **Federal Aviation Administration (FAA)** and **European Aviation Safety Agency (EASA)** approved life limits for the **High Pressure Turbine (HPT)** rotor parts. Part life is identified by flight cycles. Refer to: [LEAP-1A-05-11-00-01A-040A-C](#). The operator must make sure that the cycles on the parts are not more than the life limits: **Figure 1**.

### **B. Life limits of the HPT rotor parts**

**Table 1** and **Table 2** for the life limits of the **HPT** rotor life-limited parts for the LEAP-1A engine for commercial application.

Table 1: LEAP-1A Engine model and life limits

Part Name	Part Number	1A23	1A24 1A24E1	1A26 1A26E1	1A29
Forward Outer Seal	2461M38P02	3,700 Cycles	3,700 Cycles	3,700 Cycles	N/A
	2461M38P03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2784M30P01	17,000 Cycles	17,000 Cycles	17,000 Cycles	14,000 Cycles
HPT Rotor Stage 1 Disk	2466M62G02	5,100 Cycles	5,100 Cycles	5,100 Cycles	N/A
	2466M62G03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2784M32G01	14,000 Cycles	14,000 Cycles	14,000 Cycles	12,000 Cycles
HPT Rotor Interstage Seal	2466M68P01	10,000 Cycles	10,000 Cycles	10,000 Cycles	N/A
	2466M68P02 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	11,100 Cycles	11,100 Cycles	11,100 Cycles	11,100 Cycles
	2466M68P02 For part serial numbers listed in Table 6 of SB 72-0413, issue 2 or later	5,000 Cycles	5,000 Cycles	5,000 Cycles	5,000 Cycles
	2466M68P02 For part serial numbers listed in Table 7 of SB 72-0413, issue 2 or later	8,800 Cycles	8,800 Cycles	8,800 Cycles	8,800 Cycles
	2466M68P03	11,100 Cycles	11,100 Cycles	11,100 Cycles	11,100 Cycles

to be continued ...

Part Name	Part Number	1A23	1A24 1A24E1	1A26 1A26E1	1A29
HPT Rotor Stage 2 Disk	2466M52G02	3,000 Cycles	3,000 Cycles	3,000 Cycles	N/A
	2466M52G03 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	2466M52G03 For part serial numbers listed in Table 8 of SB 72-0413, issue 2 or later	2,700 Cycles	2,700 Cycles	2,700 Cycles	2,700 Cycles
	2466M52G03 For part serial numbers listed in Table 9 of SB 72-0413, issue 2 or later	3,700 Cycles	3,700 Cycles	3,700 Cycles	3,700 Cycles
	2466M52G03 For part serial numbers listed in Table 10 of SB 72-0413, issue 2 or later	6,200 Cycles	6,200 Cycles	6,200 Cycles	6,200 Cycles
	2466M52G03 For part serial numbers listed in Table 11 of SB 72-0413, issue 2 or later	7,800 Cycles	7,800 Cycles	7,800 Cycles	7,800 Cycles
	2466M52G03 For part serial numbers listed in Table 12 of SB 72-0413, issue 2 or later	9,400 Cycles	9,400 Cycles	9,400 Cycles	9,400 Cycles
	2466M52G04	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	2788M26G01	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	HPT Aft Rotating Seal	2466M56P01	15,000 Cycles	15,000 Cycles	15,000 Cycles
2564M13P02		17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles

Table 2: LEAP-1A Engine model and life limits

Part Name	Part Number	1A30	1A32	1A33 1A33B2	1A35A
Forward Outer Seal	2461M38P02	3,700 Cycles	3,700 Cycles	3,700 Cycles	3,700 Cycles
	2461M38P03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2784M30P01	14,000 Cycles	14,000 Cycles	14,000 Cycles	14,000 Cycles
HPT Rotor Stage 1 Disk	2466M62G02	5,100 Cycles	5,100 Cycles	5,100 Cycles	5,100 Cycles
	2466M62G03	11,000 Cycles	11,000 Cycles	11,000 Cycles	11,000 Cycles
	2784M32G01	12,000 Cycles	12,000 Cycles	12,000 Cycles	12,000 Cycles
HPT Rotor Interstage Seal	2466M68P01	10,000 Cycles	10,000 Cycles	10,000 Cycles	10,000 Cycles
	2466M68P02 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	11,100 Cycles	11,100 Cycles	11,100 Cycles	11,100 Cycles
	2466M68P02 For part serial numbers listed in Table 6 of SB 72-0413, issue 2 or later	5,000 Cycles	5,000 Cycles	5,000 Cycles	5,000 Cycles
	2466M68P02 For part serial numbers listed in Table 7 of SB 72-0413, issue 2 or later	8,800 Cycles	8,800 Cycles	8,800 Cycles	8,800 Cycles
	2466M68P03	11,100 Cycles	11,100 Cycles	11,100 Cycles	11,100 Cycles

to be continued ...

Part Name	Part Number	1A30	1A32	1A33 1A33B2	1A35A
HPT Rotor Stage 2 Disk	2466M52G02	3,000 Cycles	3,000 Cycles	3,000 Cycles	3,000 Cycles
	2466M52G03 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	2466M52G03 For part serial numbers listed in Table 8 of SB 72-0413, issue 2 or later	2,700 Cycles	2,700 Cycles	2,700 Cycles	2,700 Cycles
	2466M52G03 For part serial numbers listed in Table 9 of SB 72-0413, issue 2 or later	3,700 Cycles	3,700 Cycles	3,700 Cycles	3,700 Cycles
	2466M52G03 For part serial numbers listed in Table 10 of SB 72-0413, issue 2 or later	6,200 Cycles	6,200 Cycles	6,200 Cycles	6,200 Cycles
	2466M52G03 For part serial numbers listed in Table 11 of SB 72-0413, issue 2 or later	7,800 Cycles	7,800 Cycles	7,800 Cycles	7,800 Cycles
	2466M52G03 For part serial numbers listed in Table 12 of SB 72-0413, issue 2 or later	9,400 Cycles	9,400 Cycles	9,400 Cycles	9,400 Cycles
	2466M52G04	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	2788M26G01	9,900 Cycles	9,900 Cycles	9,900 Cycles	9,900 Cycles
	HPT Aft Rotating Seal	2466M56P01	15,000 Cycles	15,000 Cycles	15,000 Cycles
2564M13P02		17,500 Cycles	17,500 Cycles	17,500 Cycles	17,500 Cycles

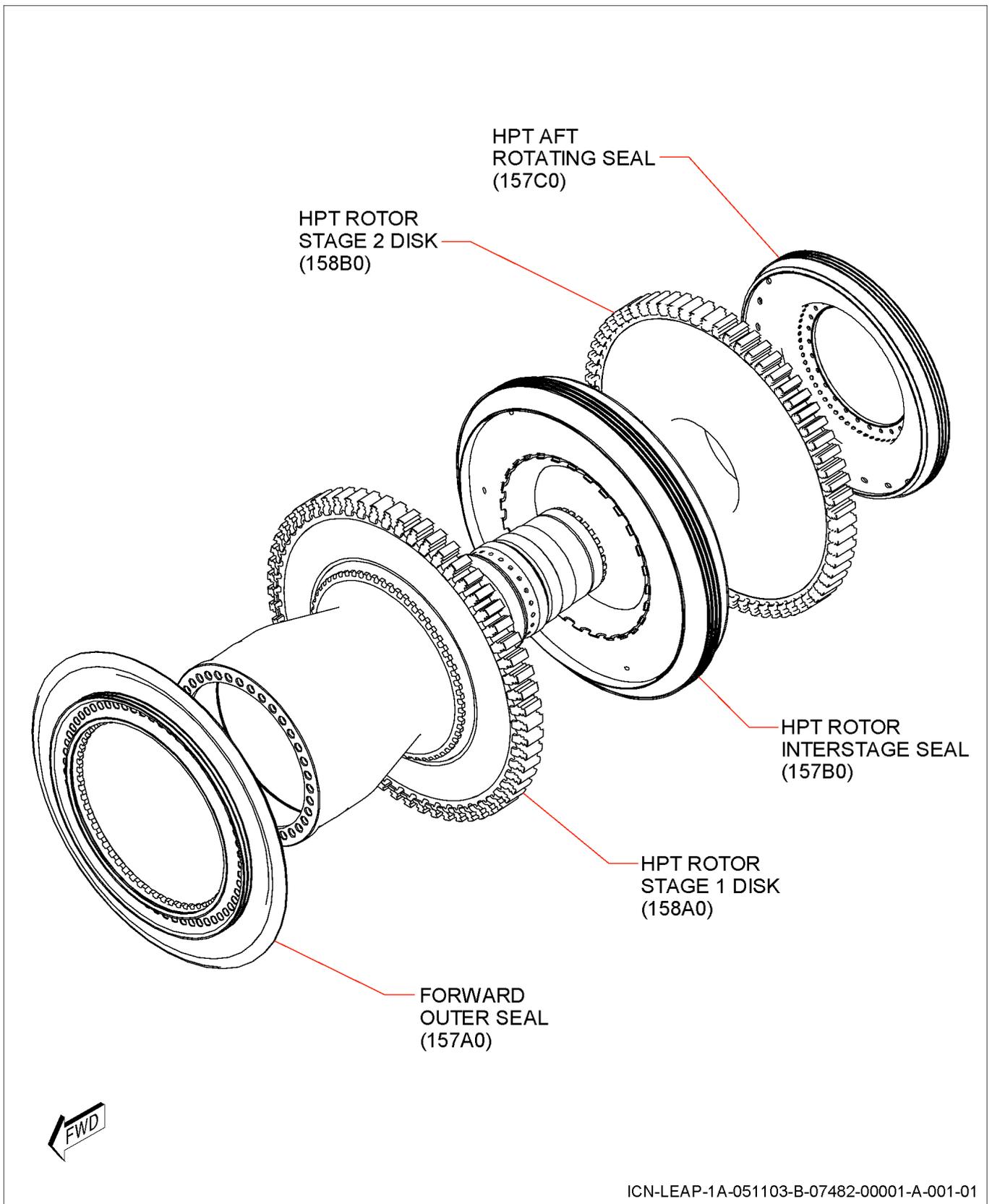
Table 3 for the life limits of the **HPT** rotor life-limited parts for the LEAP-1A engine for corporate jet application.

Table 3: LEAP-1A Engine model and life limits

Part Name	Part Number	1A26CJ	1A29CJ
Forward Outer Seal	2461M38P02	N/A	N/A
	2461M38P03	9,000 Cycles	9,000 Cycles
	2784M30P01	10,000 Cycles	10,000 Cycles
HPT Rotor Stage 1 Disk	2466M62G02	N/A	N/A
	2466M62G03	10,000 Cycles	10,000 Cycles
	2784M32G01	10,000 Cycles	10,000 Cycles
HPT Rotor Interstage Seal	2466M68P01	N/A	N/A
	2466M68P02 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	9,700 Cycles	9,700 Cycles
	2466M68P02 For part serial numbers listed in Table 6 of SB 72-0413, issue 2 or later	4,500 Cycles	4,500 Cycles
	2466M68P02 For part serial numbers listed in Table 7 of SB 72-0413, issue 2 or later	7,700 Cycles	7,700 Cycles
	2466M68P03	9,700 Cycles	9,700 Cycles

to be continued ...

Part Name	Part Number	1A26CJ	1A29CJ
HPT Rotor Stage 2 Disk	2466M52G02	N/A	N/A
	2466M52G03 For part serial numbers NOT listed in SB 72-0413, issue 2 or later	8,000 Cycles	8,000 Cycles
	2466M52G03 For part serial numbers listed in Table 8 of SB 72-0413, issue 2 or later	2,700 Cycles	2,700 Cycles
	2466M52G03 For part serial numbers listed in Table 9 of SB 72-0413, issue 2 or later	3,400 Cycles	3,400 Cycles
	2466M52G03 For part serial numbers listed in Table 10 of SB 72-0413, issue 2 or later	5,700 Cycles	5,700 Cycles
	2466M52G03 For part serial numbers listed in Table 11 of SB 72-0413, issue 2 or later	7,100 Cycles	7,100 Cycles
	2466M52G03 For part serial numbers listed in Table 12 of SB 72-0413, issue 2 or later	8,000 Cycles	8,000 Cycles
	2466M52G04	8,000 Cycles	8,000 Cycles
	2788M26G01	8,000 Cycles	8,000 Cycles
HPT Aft Rotating Seal	2466M56P01	N/A	N/A
	2564M13P02	10,000 Cycles	10,000 Cycles



HPT rotor parts - Life limits  
Figure 1

## 7. REQUIREMENTS AFTER JOB COMPLETION

*No Required conditions after job completion*